2 WHAT IS CLAIMED IS:

1

9

10

11

12

13

16

17

18

19

20

21

22

23

ul at

4 1. A game controller for communicating between a user and an electronic

- 5 game devide, comprising:
- 6 a housing;
- a sensor attached to said housing and responsive to operation by the user to generate signals;
 - a radio frequency sender engaged with said sensor, wherein said sender is capable of time domain multiplexed transmission of said signals; and a radio frequency receiver engaged with the electronic game device for receiving the signals from said radio frequency sender.

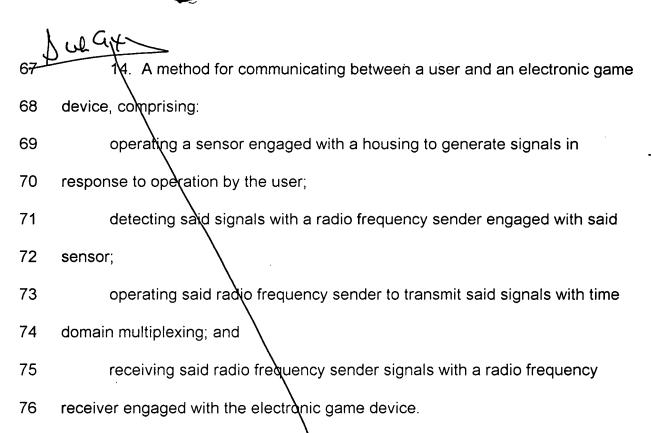
2. A game controller as recited in Claim 1, wherein said radio frequency
receiver is attached to the electronic game device.

3. A game controller as recited in Claim 1, wherein said radio frequency receiver is capable of transmitting signals from the electronic game device to said radio frequency sender.

4. A game controller as recited in Claim 3, wherein said sensor is engaged with said radio frequency sender for detecting signals transmitted by said radio frequency sender.

24	\cdot
25	5. A game controller as recited in Claim 1, wherein said radio frequency
26	sender is capable of being turned off when said signals are not being
27	transmitted.
28	
29	6. A game controller as recited in Claim 1, wherein said radio frequency
30	sender is capable of transmitting said signals in a plurality of discrete time
31	intervals.
32	
33	7. A game controller as recited in Claim 1, wherein said signals are
34	transmitted at a frequency equal to or greater than 300 MHz.
35 <u>}</u>	az
36	8. Agame controller system for communicating between at least two
37	users and an electronic game device, comprising:
38	a housing;
39	at least two sensors engaged with said housing and responsive to
40	operation by the persons to generate signals;
41	a radio frequency sender engaged with said sensors, wherein said sender
42	is capable of time domain multiplexed transmission of said signals; and
43	a radio frequency receiver engaged with the electronic game device for
44	receiving the signals from said radio frequency sender.
45	

46	9. A game controller system as recited in Claim 8, wherein each sensor is
47	attached to a separate housing and is further engaged with said radio frequency
48	sender.
49 Su	1 Q3 J
50	10. A game controller system as recited in Claim 8, wherein said sensor
51	and said receiver share a common address transmitted as one of said signals.
52	
53	11. A game controller system as recited in Claim 8, wherein one or more
54	of said radio frequency senders are capable of transmitting signals to one or
55	more radio frequency receivers each engaged with a different electronic game
56	device.
57	
58	12. A game controller system as recited in Claim 8, wherein said receiver
59	is capable of receiving signals from at least two radio frequency senders
60	operating on different channels.
61 <u>}</u>	ul ay
62 ^F	13. A game controller system as recited in Claim 8, wherein said receiver
63	is capable of receiving signals from at least two radio frequency senders
64	operating on the same channel.



15. A method as recited in Claim 14, further comprising the steps of operating a second sensor engaged with said housing to generate a signals in response to operation by a second user, and of detecting said signals with said radio frequency sender for transmission to said radio frequency receiver.

16. A method as recited in Claim 14, further comprising the steps of operating a second sensor engaged with a second housing to generate signals in response to operation by a second user, of detecting said signals with a second radio frequency sender engaged with said second sensor, of transmitting said signals with said radio frequency sender, and of receiving said second radio frequency sender signals with said radio frequency receiver.

4
ħ.
T.
Ŧ.,
4
Œ
2
H
П
L.
==

17. A method as recited in Claim 14, further comprising the steps of
transmitting signals from said radio frequency receiver and of receiving said
radio frequency receiver signals with said radio frequency sender.

- 18. A method as recited in Claim 14, further comprising the step of transmitting the signals in a plurality of discrete time periods interrupted by periods where no transmission occurs.
- 19. A method as recited in Claim 14, further comprising the step of transmitting signals between said radio frequency sender and said radio frequency receiver which comprise an address for connecting said sender and receiver.